



# Hospital of Saint Raphael

A member of the Saint Raphael Healthcare System

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1450 Chapel Street  
New Haven, Connecticut 06511  
(203) 789-3000

CONNECTICUT OFFICE OF  
HEALTH CARE ACCESS

July 20, 2004

Cristine Vogel  
Commissioner  
Office of Health Care Access  
State of Connecticut  
410 Capital Avenue  
3<sup>rd</sup> Floor  
Hartford, Connecticut 06134-0308

Re: Hospital of Saint Raphael  
Letter of Intent  
Replacement of BiPlane Angio System

Dear Commissioner Vogel:

Attached is a completed Letter of Intent (OHCA Form 2030) describing the Hospital of Saint Raphael's proposed project to replace the existing obsolete biplane angiographic equipment with a state-of-the-art 3D angiographic unit.

The existing biplane angiographic equipment is 13 years old and is beyond its recommended useful life. The replacement of this equipment is considered to be vital to the Hospital's continued delivery of high quality neuro-interventional procedures, which we currently provide.

We look forward to working with you and the Staff of the Office of Health Care Access on this necessary project. If you or your staff have any questions regarding this proposal, please contact me at (203) 789-5961.

Sincerely yours,

Jeffrey B. Hughes  
Director, Planning & Business Development



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**State of Connecticut  
Office of Health Care Access  
Letter of Intent/Waiver Form  
Form 2030**

CONNECTICUT OFFICE OF  
HEALTH CARE ACCESS

All Applicants must complete a Letter of Intent (LOI) form prior to submitting a Certificate of Need application, pursuant to Sections 19a-638 and 19a-639 of the Connecticut General Statutes and Section 19a-643-79 of OHCA's Regulations. Please submit this form to the Commissioner of the Office of Health Care Access, 410 Capitol Avenue, MS# 13HCA, P.O. Box 340308, Hartford, Connecticut 06134-0308.

**SECTION I. APPLICANT INFORMATION**

If there are more than two Applicants, please attach a separate sheet of paper and provide additional information in the format below.

	Applicant One	Applicant Two
Full legal name	Hospital of Saint Raphael	
Doing Business As	Hospital of Saint Raphael	
Name of Parent Corporation	Saint Raphael Healthcare System, Inc.	
Mailing Address, if Post Office Box, include a street mailing address for Certified Mail	1450 Chapel Street New Haven, CT 06511	
Applicant type (e.g., profit/non-profit)	Non-profit	
Contact person, including title or position	Jeffrey B. Hughes Director, Planning & Business Development	
Contact person's street mailing address	1450 Chapel Street New Haven, CT 06511	
Contact person's phone #, fax # and e-mail address	(203) 789-5961 Phone (203) 789-3653 Fax <a href="mailto:jhughes@srhs.org">jhughes@srhs.org</a>	

## SECTION II. GENERAL APPLICATION INFORMATION

a. Proposal/Project Title:

**Replacement of Bi Plane Angio System**

Type of Proposal, please check all that apply:

- ☐ Change in Facility (F), Service (S) or Function (Fnc) pursuant to Section 19a-638, C.G.S.:
- |  |  |  |
|--|--|--|
| <input type="checkbox"/> New (F, S, Fnc)       | <input type="checkbox"/> Replacement   | <input type="checkbox"/> Additional (F, S, Fnc)      |
| <input type="checkbox"/> Expansion (F, S, Fnc) | <input type="checkbox"/> Relocation    | <input type="checkbox"/> Service Termination         |
| <input type="checkbox"/> Bed Addition          | <input type="checkbox"/> Bed Reduction | <input type="checkbox"/> Change in Ownership/Control |

☒ Capital Expenditure/Cost, pursuant to Section 19a-639, C.G.S.:

☒ Project expenditure/cost greater than \$ 1,000,000

☒ Equipment Acquisition greater than \$ 400,000

- |                                  |   |  |
|----------------------------------|---|--|
| <input type="checkbox"/> New     | <input checked="" type="checkbox"/> Replacement | <input type="checkbox"/> Major Medical |
| <input type="checkbox"/> Imaging | <input type="checkbox"/> Linear Accelerator     |  |

☐ Change in ownership or control, pursuant to Section 19a-639 C.G.S., resulting in a capital expenditure over \$1,000,000

b. Location of proposal (Town including street address):

**Hospital of Saint Raphael  
1450 Chapel Street  
New Haven, CT 06511**

c. List all the municipalities this project is intended to serve:

**The Hospital of Saint Raphael defines its service area to include the 22 towns and cities of South Central Connecticut. Please see Attachment # 1 for a complete listing of service area towns.**

d. Estimated starting date for the project:

**The Hospital anticipates that the equipment will be operational by January 2005, pending CON approval.**

e. Type of project: 22 (Fill in the appropriate number(s) from page 7 of this form)

**Number of Beds (to be completed if changes are proposed)**

Type	Existing Staffed	Existing Licensed	Proposed Increase (Decrease)	Proposed Total Licensed

**SECTION III. ESTIMATED CAPITAL EXPENDITURE INFORMATION**

a. Estimated Total Capital Expenditure: \$ 2,205,040

b. Please provide the following breakdown as appropriate:

Construction/Renovations	\$ 200,000
Medical Equipment (Purchase)	
Imaging Equipment (Purchase)	\$ 2,005,040
Non-Medical Equipment (Purchase)	
Sales Tax	
Delivery & Installation	
<b>Total Capital Expenditure</b>	<b>\$ 2,205,040</b>
Fair Market Value of Leased Equipment	
<b>Total Capital Cost</b>	<b>\$2,205,040</b>

**Major Medical and/or Imaging equipment acquisition:**

Equipment Type	Name	Model	Number of Units	Cost per unit
Bi Plane Angio System	Siemens	Axiom Artis BA	1	2,005,040

Note: Provide a copy of the contract with the vendor for major medical/imaging equipment.

**Please see Attachment # 2 for a copy of the vendor price quote.**

c. Type of financing or funding source (more than one can be checked):

- ☒ Applicant's Equity
 ☒ Lease Financing
 ☐ Conventional Loan  
☐ Charitable Contributions
 ☐ CHEFA Financing
 ☐ Grant Funding  
☐ Funded Depreciation
 ☐ Other (specify): \_\_\_\_\_

**SECTION IV. PROJECT DESCRIPTION**

Please attach a separate 8.5" X 11" sheet(s) of paper and provide no more than a 2 page description of the proposed project, highlighting all the important aspects of the proposed project. Please be sure to address the following (if applicable):

**Please see Attachment # 3 for a description of the project.**

- Currently what types of services are being provided? If applicable, provide a copy of each Department of Public Health license held by the Petitioner.

**Please see Attachment #4 for a copy of the current license for the Hospital of Saint Raphael issued by the Department of Public Health.**

- What types of services are being proposed and what DPH licensure categories will be sought, if applicable?
- Who is the current population served and who is the target population to be served?
- Identify any unmet need and how this project will fulfill that need.
- Are there any similar existing service providers in the proposed geographic area?
- What is the effect of this project on the health care delivery system in the State of Connecticut?
- Who will be responsible for providing the service?
- Who are the payers of this service?

**If requesting a Waiver of a Certificate of Need, please complete Section V.**

**SECTION V. WAIVER OF CON FOR REPLACEMENT EQUIPMENT**

I may be eligible for a waiver from the Certificate of Need process because of the following: (Please check all that apply)

- ☐ This request is for Replacement Equipment.
- ☐ The original equipment was authorized by the Commission/OHCA in Docket Number:  
☐ The cost of the equipment is not to exceed \$2,000,000.
- ☐ The cost of the replacement equipment does not exceed the original cost increased by 10% per year.

Please complete the attached affidavit for Section V only.

▪ **AFFIDAVIT**

Applicant: \_\_\_\_\_

Project Title: \_\_\_\_\_

I, \_\_\_\_\_,  
(Name) (Position – CEO or CFO)

of \_\_\_\_\_ being duly sworn, depose and state that the  
information provided in this CON Letter of Intent/Waiver Form (2030) is true and accurate to  
the best of my knowledge, and that \_\_\_\_\_ complies with the appropriate and  
(Facility Name)

applicable criteria as set forth in the Sections 19a-630, 19a-637, 19a-638, 19a-639, 19a-486  
and/or 4-181 of the Connecticut General Statutes.

\_\_\_\_\_  
Signature Date

Subscribed and sworn to before me on \_\_\_\_\_

\_\_\_\_\_  
Notary Public/Commissioner of Superior Court

My commission expires: \_\_\_\_\_

## Project Type Listing

Please indicate the number or numbers of types of projects that apply to your request on the line provided on the Letter of Intent Form (Section II, page 2).

### Inpatient

1. Cardiac Services
2. Hospice
3. Maternity
4. Med/ Surg.
5. Pediatrics
6. Rehabilitation Services
7. Transplantation Programs
8. Trauma Centers
9. Behavioral Health (Psychiatric and Substance Abuse Services)
10. Other Inpatient

### Outpatient

11. Ambulatory Surgery Center
12. Birthing Centers
13. Oncology Services
14. Outpatient Rehabilitation Services
15. Paramedics Services
16. Primary Care Clinics
17. Urgent Care Units
18. Behavioral Health (Psychiatric and Substance Abuse Services)
19. MRI
20. CT Scanner
21. PET Scanner
22. Other Imaging Services
23. Lithotripsy
24. Mobile Services
25. Other Outpatient
26. Central Services Facility

### Non-Clinical

27. Facility Development
28. Non-Medical Equipment
29. Land and Building Acquisitions
30. Organizational Structure (Mergers, Acquisitions, Affiliations, and Changes in Ownership)
31. Renovations
32. Other Non-Clinical



**Attachment # 1**

**Listing of Towns and Cities that Comprise the Service Area  
of the Hospital of Saint Raphael**

**Attachment #1**

**Hospital of Saint Raphael Service Area:**

**Ansonia  
Bethany  
Branford  
Cheshire  
Clinton  
Derby  
East Haven  
Guilford  
Hamden  
Madison  
Meriden  
Milford  
New Haven  
North Branford  
North Haven  
Orange  
Oxford  
Seymour  
Shelton  
Wallingford  
West Haven  
Woodbridge**

**Attachment # 2**

**Bi Plane Angio System Price Quote**

### Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern PA 19355

Siemens Medical Solutions

Health Services Corporation

Siemens Medical Solutions

Ultrasound Division

### ST RAPHAEL HOSPITAL

1450 CHAPEL ST  
NEW HAVEN, CT 06511

### LOCAL SALES OFFICE: Boston

Siemens Medical Solutions USA, Inc.

200 Wheeler Rd, 3rd Floor

Burlington, MA 01803

Phone: (781) 203-6000

Fax: (781) 203-6025

### PROPOSAL REFERENCE

Proposal: 3XS-YQ1 Date: 6/7/2004

### Siemens' REPRESENTATIVE

Michael Yohe

INQUIRIES REGARDING THIS  
PROPOSAL SHOULD REFER TO  
**SYSTEM QUOTE #** AND BE  
DIRECTED TO THE LOCAL SALES  
OFFICE

Siemens Medical Solutions USA, Inc., is pleased to submit the following quotation for the products and services described herein at the stated prices and terms, subject to your acceptance of the terms and conditions on the face and back hereof, and on any attachment hereto.

### DELIVERY SUBJECT TO AVAILABILITY

FREIGHT CHARGES AND TAXES, IF ANY, ARE PAYABLE UPON RECEIPT OF INVOICE.

WARRANTY: See specific product line attachment definitions.

THIS QUOTATION IS IN US DOLLARS AND IS VALID FOR 45 DAYS.

Siemens Medical Solutions USA, Inc.

SUBMITTED BY: \_\_\_\_\_ (signature)

NAME: Michael Yohe

TITLE: Siemens' REPRESENTATIVE

DATE: 6/7/2004

### CUSTOMER'S ACCEPTANCE:

BY: \_\_\_\_\_ (signature)

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

### Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern PA 19355

Siemens Medical Solutions

Health Services Corporation

Siemens Medical Solutions

Ultrasound Division

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1450 CHAPEL ST  
NEW HAVEN, CT 06511

#### PROPOSAL REFERENCE

Proposal: 3XS-YQ1 Date: 6/7/2004

<u>System Quote #</u>	<u>System Quote Name</u>
3XS-2PZT	AXIOM ARTIS BA
<u>Revision</u>	<u>Terms of Payment</u>
3	
FOB: Shipping Point	

"PREMIER" contract terms and conditions apply to system quote #3XS-2PZT. General contract terms and conditions, (if included at the end of this proposal), do not apply to this system quote.

### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
<b><u>AXIOM ARTIS BA</u></b>			

#### 1 08860475 AXIOM Artis Biplane Combi system

Biplane angiography system with digital subtraction acquisition techniques for diagnosis and intervention in case of arteriosclerotic diseases.

#### Unit system

- High flexibility and fast positioning: 5 programmed work positions and additional 50 user-defined work positions.
- One single joystick for patient angle oriented control of C-arm and I.I. movements.
- Integrated, computer-aided collision monitoring ICP (Intelligent Collision Protection).
- Isocenter-floor distance 106 cm for both planes.
- Source-isocenter distance 75 cm for both planes.

#### Floor-mounted stand

- Two work positions and one park position.
- C-arm positioning 0° to the head end side and 35° to the left side along the longitudinal patient axis.

**Siemens Medical Solutions USA, Inc.**

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
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- Double oblique projections of  $\pm 120^\circ$  LAO/RAO and  $+55^\circ/-45^\circ$  cran/caud.
- Variable C-arm speeds up to 25°/s.
- Variable source-to-I.I. distance between 87.5 cm and 117.5 cm (33 cm I.I.), between 93.5 cm and 117.5 cm (40 cm I.I.).

#### Lateral ceiling-mounted support

- Ceiling-mounted compact C-arm for hemi-axial oblique projections in simultaneous biplane operation:
- Two work positions and one park position.
- Synchronous movement of both planes by maintaining the relative angle.
- Double oblique projections of from  $0^\circ$  to  $120^\circ$  LAO/RAO and  $\pm 70^\circ$  cran/caud.
- Variable C-arm speeds up to 10°/s.
- Variable source-to-I.I. distance between 94 cm and 124 cm (33 cm I.I.).
- Motorized longitudinal C-arm movement from the thorax area to park position outside the examination range, variable up to 15 cm/s.

#### Imaging system

High-resolution digital imaging system with innovative image display, DICOM network connection and Syngo user interface.

#### Image storage capacity

- 25,000 images in 10242/12 bit image matrix (extendable).

#### Operating modes

- Digital acquisition technology in 10242/12 bit matrix and digital real-time filtration, single image and serial acquisitions of 0.5 f/s to 7.5 f/s with time-controlled and manually variable frame rate.

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
		<ul style="list-style-type: none"> <li>- Digital pulsed fluoroscopy with 15 p/s and 30 p/s in 10242/12 bit matrix and digital real-time filtration, continuously weighted averaging with motion detector.</li> <li>- Roadmapping / subtracted fluoroscopy with simultaneous display of roadmap / sub-image on live monitor and native / unsubtracted image on reference monitor (if existing).</li> <li>- Overlay fade, on-line superposition of active fluoroscopy and reference image.</li> <li>- Digital subtraction angiography in 10242/12 bit matrix and digital real-time filtration, single image and serial acquisitions of 0.5 f/s to 7.5 f/s with time-controlled and manually variable frame rate.</li> <li>- DDO (Dynamic Density Optimization) for on-line harmonization of native series and single images.</li> </ul>	
		<b>Image processing</b> <ul style="list-style-type: none"> <li>- Real-time edge enhancement, positive/negative image display, windowing, contrast/brightness, electronic display (shutter), image shift (roaming), vertical and horizontal image inversion, magnifying glass and zoom functions.</li> <li>- Automatic and manual pixel shift, remask, Peak Opacification for iodine contrast (MaxOpac) and CO2 contrast (MinOpac), adding of the anatomical background (landmark) from 0 to 100%.</li> <li>- Storing of fluoroscopic images also during fluoroscopy.</li> <li>- Quantification: angle/length measurement, automatic calibration.</li> <li>- Text functions: user-definable image annotation, free annotation or by means of text components, comments line for the image, R/L display.</li> <li>- Fast and direct access to all series, single images and photofile via MULTIMAP both in the examination and in the control room.</li> </ul>	
		<b>Networking</b> <p>Network interface (100 BaseT) for both planes with the following integrated DICOM 3 services:</p> <ul style="list-style-type: none"> <li>- DICOM Send</li> </ul>	

ACCEPTANCE ON FIRST PAGE INCLUDES ALL FOLLOWING PAGES AS SPECIFIED ABOVE

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
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- DICOM Query
- DICOM Retrieve
- DICOM Print

#### CAREPROFILE

Radiation-free positioning of the primary and semi-transparent diaphragms by means of graphic display in the LIH (Last Image Hold).

#### Vessel analysis

Measuring program integrated in the imaging system for objective, precise and reproducible evaluation of vessels.

- Automated contour detection.
- Determination of degree of stenosis
- Automatic and manual reference diameter determination.
- Automatic and manual calibration methods.
- Distance and angle measurement.

#### Siemens Remote Service

Prepared for Siemens Remote Service SRS™ (during warranty, then with service contract):

- Hardware and software remote diagnosis.
- System remote configuration, e.g. adding of a DICOM node.
- Early warning system ensuring system operation.

#### Operation

In the examination room: Complete system operation through modular control elements directly at the patient table for controlling the C-arm movements, patient

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
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table and multileaf collimators. Touchscreen control using multi-functional joystick for operation of the imaging system including post-processing and quantification as well as selection of the organ programs.

In the control room: Standard Siemens Syngo control via keyboard and mouse for all imaging system functions such as image post-processing, storing and configuring of organ programs.

#### Footswitch

For release of fluoroscopy, roadmap, exposure and table brake as well as a configurable additional function.

#### Data display

Large-format flat screen monitor integrated in the monitor suspension system for display of unit and table geometry, system messages and dose data with CAREWATCH option for both planes.

#### X-ray television system

Two high-resolution digital X-ray television systems with maintenance-free and non-aging CCD technology with full-size CCD sensor (matrix 10242); constant image brightness through automatic gain control, high contrast and high spatial resolution.

#### X-ray image intensifier

One 33 cm image intensifier with input formats 33/22/17/13 cm (13"/9"/7"/5") and 6.7 cm (digital), in connection with the acquisition zoom option; One 40 cm image intensifier with input formats 40/28/20/14 cm(15.7"/11"/7.9"/5.5") and 10 cm (digital), in connection with the acquisition zoom option.

Image intensifiers with high dynamics for superselective and overview images. High contrast and excellent modulation capabilities enable display of finest details.

- Cesium-iodide X-ray screen for high quantum absorption to achieve minimum quantum noise.

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Qty	Part #	Description	Extended Net Price
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- Precision electron optics with minimum image distortion and high, homogeneous resolution over the entire image field.
- Anti-glare screen and scattered light trap.
- Semiconductor measuring fields for dose rate control.
- Integrated collision protection with removable grid.
- Small housing diameter for steep angulations (33 cm I.I.: 400 mm; 40 cm I.I.: 480 mm).

#### Collimator

Two rotating angio collimators with iris and square collimator, wedge-shaped filter diaphragms for DSA and cardiological applications as well as a finger-shaped follow-up filter.

- Independent rotation and shifting of the filter diaphragms.
- Five-step adaptive Cu prefiltration (CAREFILTER) to reduce skin dose: automatically controlled selection depending on object absorption
- Automatic synchronous rotation of the camera and collimator unit for adjustment of the image rotation with different work positions of the stand.

#### X-ray generators

Two microprocessor-controlled high-frequency X-ray generators with automatic dose rate control for exposure and fluoroscopy.

- 100 kW at 100 kV (DIN 6822).
- SID tracking (automatic tube current adaptation to the source-to-I.I. distance).
- Automatic X-ray control system CAREMATIC for fully automatic calculation and optimization of exposure data based on fluoroscopic values.
- Patient transparency monitoring.
- Tube load monitoring with indication in the data display.

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
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- Generator operation fully integrated in the system operation.

#### Note concerning DICOM interface(s)

For diagnostic purposes, hardcopy cameras/laser printers explicitly approved for this system may be used only.

The description in the „DICOM Conformance Statement“, which can be downloaded from the internet (<http://www.siemensmedical.com>) is binding for the functionality of the DICOM interface(s) exclusively.

Functionalities across system borders with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility. Such validation can be performed on a time and material basis, if desired.

A potential change of interface is not part of the offer; e.g. in the rare case that existing configurations are not sufficient.

With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.

#### 1 04443318 DYNAVISON DSA

Digital rotational angiography with 3D effect. Dynamic subtracted image display. Acquisition through angle trigger technology. Angle triggering allows dose saving through frame rate reduction and simultaneous image quality improvement. The rotational speed is up to 40°/s. Maximum frame rate: 30 frames per second (512 matrix), 7.5 frames per second (1024 matrix).

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
1	04443748	<b>Table with stepping</b> Floor-mounted patient table with floating tabletop designed for angiographic examinations and interventions. * Direct patient access from all sides. * Telescopic foot with motorized height adjustment. * Maximum patient weight: 440 lbs plus 88 lbs of supplied accessories and additionally allowing 220 lbs for CPR.  PERISTEPPING (for Image Intensifiers 13" and larger) : Peripheral digital stepping under visual control of the bolus flow. * Position-dependent variable frame rates * Fully automatic exposure control Automatic storage of the collimator settings for each step	
1	04443300	<b>PERIVISION</b> Peripheral digital stepping angiography (for Image Intensifiers 13" and larger) with real time on-line subtraction display, utilizing a single contrast medium injection, steps initiated and controlled while viewing the flow of the bolus. * Only one single automatically acquired mask image for each individual position * Position-dependent variable frame rates * Fully automatic exposure control  Automatic storage of the collimator setting for each step.	
1	04435140	<b>Tabletop/mattress,narrow</b> Carbon fiber tabletop in narrow design with head-end recess and matching special foam mattress, for example for cardiac applications. Tabletop tapered in the thorax area for maximum freedom of angulation of the C-arm.	
1	04442963	<b>MEGALIX Cat 125-15/40/80(2)</b> Second generation noise free liquid bearing X-ray tube with industry exclusive 4KW fluoro loadability for optimal image quality. * Focus 0.3/0.6/1.0 (15/40/80 kW)	

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Qty	Part #	Description	Extended Net Price
1	04443797	<b>CAREWATCH for Angio collim (2)</b> Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing, for acquisition of the dose area product. Configurable displays on the data display and imaging system monitor: * During fluoroscopy: surface entry dose or the remaining time until a configurable dose limit value has been reached. During fluoroscopic interval: accumulated surface entry dose or dose area product or percentage of dose limit value.	
<b><u>Displays/Multi-Modality-Viewing Artis Biplane</u></b>			
1	08860855	<b>DCS 6 w/4BWD-18-D 2Live+2Ref+2prep</b> Ceiling-mounted, swivelling, rotating, height-adjustable display suspension system with longitudinal travel with four 18" high-contrast b/w displays for live and reference image display. - Displays in monochrome TFT version with slim frame, especially for use in the examination room. - High luminance and room light sensor for optimum image quality.	
1	04490657	<b>Multi-Modality Viewing DCS system</b> Consisting of a basic kit with video switch, optical video isolation and isolation transformer, as well as a color flatscreen display with black frame and cable for installation in a DCS.	
1	04490673	<b>Multi-Modality-Viewing LEO-Kit</b> For connection of the color flatscreen display /monitor in the examination room to the LEONARDO workstation.	
1	04490699	<b>Multi-Modality-Viewing Ultrasd. kit</b> For connection of the color flatscreen display / monitor in the examination room to the Terason ultrasound system.	

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
1	04490707	<b>Multi-Modality-Viewing Univers. Kit</b> For connection of the color flatscreen display / monitor in the examination room to a PC with SXGA 1280 x 1024 or VGA 640 x 480 system.	
1	04490913	<b>Contr. rm. 2 BWD-18-C (2xLive)</b> Two 18" high-contrast b/w displays for live image display, as well as syngo operation in the control room. Desktop design with black frame and room light sensor. Monochrome TFT technology with high luminance and extended viewing angle, Resolution: 1280x1024 pixels, max. brightness (typical): 600 cd/m2.	
1	04435819	<b>CAREVISION</b> Digitally controlled pulsed fluoroscopy with additional, reduced pulse rates of 7.5 p/s to 0.5 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure to staff and patient, especially during interventional procedures.	
1	04443755	<b>Fluoro Loop Bipl.</b> Storage and display of dynamic fluoroscopic sequences (Fluoro Loop), for both planes.	
1	04435801	<b>Automap</b> Automatic stand positioning depending on the displayed reference image for seamless continuation of interventional procedures. It additionally enables automatic reference image selection depending on the stand positioning.	
1	04435926	<b>DICOM RIS-Modality Worklist</b> DICOM 3 compliant .Get Worklist.-function. This improves the workflow by direct input of the patient demographics, eliminating typographic errors.	
1	04433616	<b>Syngo keyboard, USA</b> Keyboard for easy operation of syngo (browser, viewer, filming). There are special keys for windows, sheets, printing, marking and network communication.	

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
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#### Additional control sites Angio/Card

- |   |          |  |
|---|----------|--|
| 1 | 04443557 | <b>Interface for ctrl rm operation</b><br>Interface for connection of the optional system operation from the control room. |
| 1 | 04443607 | <b>Ctrl rm emergency stop module</b><br>Safety button for switching off all system functions from the control room.        |
| 1 | 04443433 | <b>Hand switch</b><br>Additional hand switch for radiation release with additional control functions                       |
| 1 | 04443615 | <b>Ctrl rm injector interface</b><br>Interface for controlling the contrast medium injector from the control room.         |

#### LEONARDO Workstation

- |   |          |   |
|---|----------|---|
| 1 | 04471780 | <b>Leonardo Basic System (FSC-PC)</b><br>DICOM compatible workstation for image post-processing and reporting.<br>Patient browser for fast and transparent management of patient records. Easy communication with other network components.<br>Viewer for diagnosing and post-processing of DICOM compatible images from different modalities. Local storage and sending to DICOM nodes possible. Query of DICOM archival devices. (DICOM Send, Receive, Query & Retrieve)<br>Virtual film sheet for individual layouts for printouts on DICOM compatible laser camera (DICOM Print) or paper printer.<br>Archiving capability on CD in DICOM standard.<br><br>High-performance Fujitsu-Siemens-Computers (FSC) especially adjusted to the LEONARDO software.<br>Including Windows NT 4.0, CD writer, 1-year on-site warranty<br>The Syngo basic software (patient browser, multi-modality viewer, virtual film sheet, ) are already pre-installed. |
|---|----------|---|

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The basic software enables implementation and functioning of cross-modality applications in MR, AX and CT.  
Patient browser for easy and transparent handling of patient data and communication with other network components, e.g. DICOM cameras, archive, workstations.  
Multi-modality viewer for diagnosis and postprocessing of DICOM compatible images of different modalities.  
Virtual film sheet for individual preparation of output on film or paper (DICOM Print)

Prepared for SRS Siemens Remote Service:

#### 1 04499096 Color flatscreen display 18" stand.

- 18" (46 cm) high-resolution color LCD display.
- resolution 1,280 x 1,024 (pixel)
- 46 cm monitor
- image size 359 mm x 287 mm.
- contrast ratio: 400:1 (typical)
- luminance: 250 cd/m2 (typ. value)
- viewing angle 170° horizontal and vertical
- signal input: RGB analog, DVI standard 1.0
- line voltage: 100 to 240 V ~ 50/60 Hz.

Electric and magnetic radiation acc. to TCO 99.

Further certifications:

Acc. to TÜV, c-Tick, CE, CB, UL 1950, CSA C 22.2 No. 950, FCC-B, Canadian IC es-003-B, TÜV/S, VCCI-B, EPA Energy STAR.

Scope of delivery:

Video (D-Sub 15-pin, DVI-D) and power cable.

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### RELEVANT Items for System Quote #3XS-2PZT

Qty	Part #	Description	Extended Net Price
1	04483116	<b>syngo InSpace 3D Pro</b> * syngo 3D reconstruction SW for the reconstruction of 2D tomograms from the projection images * syngo 3D viewer SW for visualizing 3D objects in the volume rendering mode	
1	04483132	<b>InSpace 3D accessories</b> Contains the accessories necessary for 3D reconstruction and visualization * Plexiglas calibration phantoms * Line phantom for checking the image quality * Test plates for the image intensifier Distortion reduction measurement * Form filters * 3D data link	
1	04483157	<b>Inroom Control SW-license</b> Software extension for Inspace 3D Pro or Flash for the remote control of the Leonardo from the examination room via touch panel and joystick.	
1	04433590	<b>syngo DSA SW lic.</b> Module for DSA post-processing permitting dynamic replay of DSA scenes (in subtracted or native display) and their postprocessing with functions such as: remasking, pixel shift, anatomic background, opacification etc. Replay of DYNAVISON and PERIVISION scenes.	

#### Integrated ultrasound system

1	04490079	<b>Integr. Ultrasound Sys AXIOM Artis</b> The ultrasound system integrated into the AXIOM Artis systems was developed for the field of universal angiography.  <b>Features:</b> * Dedicated user interface for angiography. * Complete application control through the table-side joystick. * Probes are installed directly on the table accessory rail for direct access. * Image review right in the examination room at the display suspension system.	
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Qty	Part #	Description	Extended Net Price
		To protect the ultrasound system against fluids or contamination it was placed in the control room.	
		<b>Image archival</b>	
		* Storage of up to 10,000 images with storage of dynamic scenes.	
		* Ethernet/modem, VCR and printer connection.	
		* CDRW.	
		* DICOM/PACS compatible.	
		<b>Standard functions</b>	
		* 2D digital imaging.	
		* Automatic image optimization.	
		* Real-time zoom.	
		* Spectral Doppler, color Doppler, Pulsed Wave Doppler, Power Doppler.	
		* Image enhancement functions.	
		* Programmable presets and protocols.	
		* Measurements/OB calculations.	
		* Alphanumeric keyboard for entry of demographic data	
1	04490087	Probe, Phased Array 4V2	
		<u>Options and accessories AXIOM Artis</u>	
1	04430133	Intercom system	
1	04490319	Tabletop Neuro complete	
		Carbon fiber tabletop with matching special foam material mattress. Narrow design with special head holder for neurological applications included. Tabletop tapered in the thorax area for maximum freedom of angulation of the C-arm. Complete set comes with: Neuro tabletop, Neuro mattress, Head holder, Wedge, and thin, medium, and thick cushions.	

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Qty	Part #	Description	Extended Net Price
1	04491077	<b>Mattress cover, NEURO</b> Disinfectable replacement cover for special foam mattress in connection with tabletop NEURO.	
1	04451022	<b>Customer documentation, English</b>	
1	INS2413	<b>Mechanical Installation AXIOM Artis BA</b>	
1	APT_AX_ARBA_9000	<b>Application Training Artis BA</b> Complete system includes 5 days of clinical application plus an additional two days for a follow up including travel time. Application training is to commence during normal business hours. The customer is responsible to make the appropriate provisions for weekend and shift personnel to be available during these hours. A maximum of 5 dedicated technologists should be made available for the entire training session to optimize training.	
1	O4RIDGESPLUS	<b>PERI BOLUS KIT</b>	
1	M2PPD22060507SM7	<b>INJECTOR, PROVIS, PEDESTAL SYSTEM, ODU</b>	
1	M66260	<b>LOWER BODY SHIELD FOR ARTIS (not Mag. N)</b>	

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**RELEVANT Items for System Quote #3XS-2PZT**

Qty	Part #	Description	Extended Net Price
1	M66290Z60110	MAVIG SHIELD,CONT,2.5M TRACK	
1	M6UFR96	MAVIG UNIFLEX R96 LAMP	
1	M61629021	MAVIG CABLE SPOOLER FOR LAMP ON TRACK	

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### OPTIONAL Items for System Quote #3XS-2PZT (not included in contract total)

Qty	Part #	Description	Extended Net Price
1	04483124	<b>syngo InSpace 3D Flash</b>	<b>\$79,950</b>
		* syngo 3D reconstruction SW for the reconstruction of 2D tomograms from the projection images	
		* syngo 3D viewer SW for visualizing 3D objects in the volume rendering mode	
		* Additional hardware for fast reconstruction and fast visualization	
1	04490095	<b>Probe, Curved Linear Array 4C2</b>	<b>\$32,550</b>
1	04490103	<b>Probe, Linear Array 10L5</b>	<b>\$32,550</b>
1	04443417	<b>video output</b>	<b>\$11,625</b>
		Additional video output for the connection of additional video components, e.g. video printer.	
1	04443409	<b>Video recorder 60 Hz+ mon.</b>	<b>\$11,625</b>
		S-VHS-Video recorder for recording and reviewing of fluoroscopy and acquisition sequences on Super-VHS-cassettes, including automatic start of recording.	
1	L4491648	<b>FD UPGRADE for AXIOM.Artis BA</b>	<b>\$397,500</b>
		The high resolution dynamic flat detector panel is especially designed to fulfill the requirements for diagnostic and interventional radiology.	

The high resolution pixel array ensures highest spatial resolution and excellent contrast.

Fluoroscopy as well as image acquisition are always done in 1 4bit digitization depth. This allows a wider range of window levels resulting in optimum image quality. Acquisition speeds are fixed or variable and can be set as high as 30 frames/s for various applications.

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Qty	Part #	Description	Extended Net Price
<p>The compact housing design and integrated collision protection provides maximum c-arm angulation range for excellent patient access while optimizing field of view for various applications. The detector is mounted on a motorized rotating turntable that automatically ensures upright presentation of the anatomy on the monitor screen independent of the relative position of the c-arm to the patient at all times. The data transfer from the detector to the imaging system is done via a high speed Gigalink fiber optic cable.</p>			
1	04433681	<b>Tabletop/matress,long</b>	<b>\$12,200</b>
		Carbon fiber tabletop with matching special foam material mattress in extended non tapered design, for special angiographic applications	
1	04435215	<b>Tabletop/mattress, wide</b>	<b>\$9,150</b>
		Carbon fiber tabletop in wide, non tapered design with matching special foam mattress for universal applications. Tabletop has a non tapered design up to the head area, for maximum positioning convenience also for obese patients.	
<b><u>Emergency Power supply UPS for Artis Systems</u></b>			
1	04471251	<b>UPS unit/table/im.sys.60 Hz UL</b>	<b>\$43,200</b>

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**Contract Total: \$2,005,040**

(items marked 'optional' not included in total)

**FINANCING:**

*The equipment listed above may be financed through Siemens. Ask us about our full range of financial products that can be tailored to meet your business and cash flow requirements. For further information, please contact your local Sales Representative or the Financial Services Department at 1-800-822-1206.*

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Revised 11-13-03

**Attachment # 3**

**Project Description**

## **Attachment # 3**

### **Project Description**

**This proposal represents the replacement of obsolete (over thirteen years old), fully depreciated biplane angiographic equipment with a state-of-the-art 3D Angiographic unit. This equipment replacement is vital to the Hospital's ability to continue to provide neuro-interventional procedures to patients in need.**

**There has been a dramatic increase in the number of neuro-interventions, especially spine interventions, that are performed at the Hospital each year. The Hospital's ability to provide kyphoplasty as well as vertebroplasty services requires biplane equipment. The volume of these services has increased from 10-20 per year to almost 100 per year and is still rising.**

**Other neuro-interventional procedures have been introduced like carotid stenting and balloon stent assisted coiling of aneurysms which we have performed in increasing frequency over the past year. Six balloon assisted and two stent assisted aneurysm embolizations and more than a dozen carotid stents have been performed.**

**The current biplane angiographic equipment in use is 13 years old and is beyond its recommended useful life. The Hospital believes that this project is critical to the it's ability to continue to provide complex neuro-interventional procedures as decribed above.**

**Similar services are provided locally by Yale-New Haven Hospital.**

**As this project represents replacement equipment, it is not expected to have any impact on the health care delivery system in the State of Connecticut.**

**The Hospital of Saint Raphael will be providing this service. Medical supervision will be provided by Board Certified Radiologists.**

**The payors of this service will be primarily Government (Medicare, Medicaid) and private / commercial medical insurance companies. The payor mix for this service is consistent with the overall payor mix for the Hospital.**

**Given the age and obsolescence of the biplane angiographic equipment currently in use, an upgrade of our biplane room to a new angio-unit with 3D capability is vital to the continuation of services which we currently provide.**

**Attachment # 4**

**Hospital of Saint Raphael License**

## Department of Public Health

## LICENSE

License No. 0056

## General Hospital

In accordance with the provisions of the General Statutes of Connecticut Section 19a-493:

Hospital of Saint Raphael of New Haven, CT, d/b/a Hospital of Saint Raphael is hereby licensed to maintain and operate a General Hospital.

Hospital of Saint Raphael is located at 1450 Chapel Street, New Haven, CT 06511

The maximum number of beds shall not exceed at any time:

22 Bassinets

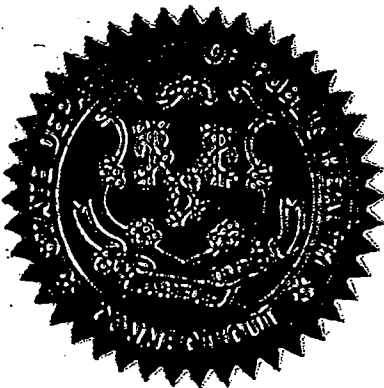
511 General Hospital beds

This license expires September 30, 2005 and may be revoked for cause at any time.

Dated at Hartford, Connecticut, October 1, 2003. RENEWAL.

## Satellites

Adolescent Day Hospital, 301 Orchard Street, New Haven, CT  
Psychiatric Day Hospital, 1294 Chapel Street, New Haven, CT  
Troup School Base Health Center, 259 Edgewood Avenue, New Haven, CT  
Children's Psychiatric Day Hospital, 1348 Chapel Street, New Haven, CT  
Elder Care Clinic, Atwater Clinic, 26 Atwater Street, New Haven, CT  
Project Mother Care (Mobile), 1450 Chapel Street, New Haven, CT  
Dwight School Based Health Center, 130 Edgewood Avenue, New Haven, CT  
Dental Mobile Van "Miles 4 Smiles", 1450 Chapel Street, New Haven, CT  
Elder Care Clinic/Tower One, Tower Lane, New Haven, CT  
Elder Care Clinic/Casa Otonal, 140 Sylvan Avenue, New Haven, CT  
Elder Care Clinic/Edith Johnson Tower, 114 Bristol Street, New Haven, CT  
Elder Care Clinic/Crawford Manor, 90 Park Street, New Haven, CT  
Elder Care Clinic/Ribicoff Cottages, 200 Brookside Avenue, New Haven, CT  
Take Heart Cardiac Rehab., 175 Sherman Avenue, New Haven, CT  
Take Heart Cardiac Rehab., 1591 Boston Post Road, Guilford, CT  
Physical, Occupational & Speech Therapies, 175 Sherman Avenue, New Haven, CT  
Physical, Occupational & Speech Therapies, 22 Summit Place, Branford, CT  
Evening Chemical Dependency Program, 1294 Chapel Street, New Haven, CT  
Saint Raphael's Occupational Health Plus And Outpatient Rehabilitative Services, 2080 Whitney Avenue-Suite 150, Hamden, CT  
Moquency Towers/Hospital of Saint Raphael Eldercare Clinic, 318/358 Orange Street, Apt.#416, New Haven, CT



Norma Gyle, R.N., Ph.D., Acting  
Commissioner